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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,974	09/26/2005	Andreas Kornbichler	S1-013P03225	1698
24131 7590 07/18/2007 LERNER GREENBERG STEMER LLP P O BOX 2480			EXAMINER	
			LY, HIEN QUANG	
HOLLYWOOD, FL 33022-2480			ART UNIT	PAPER NUMBER
			3662	
			MAIL DATE	DELIVERY MODE
			07/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/550,974	KORNBICHLER ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Hien Ly	3662				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply	N V IC CET TO EVOIDE A N	AONTHIC OF THIRTY (20) DAYS				
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MO ute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 26	Responsive to communication(s) filed on <u>26 September 2005</u> .					
2a) This action is FINAL . 2b) ⊠ Th	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>13-33</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>13-33</u> is/are rejected.						
8) Claim(s) are subject to restriction and	I/or election requirement.					
Application Papers	•					
9) The specification is objected to by the Exami	ner.	-				
10)⊠ The drawing(s) filed on <u>26 September 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the	Examiner. Note the attache	ed Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☑ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No. Germany 103 14 557.5.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bure						
* See the attached detailed Office action for a list of the certified copies not received.						
	•	,				
•						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 09/26/2005.		Informal Patent Application				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 13-19, 23-25, and 29-33 are rejected under 35 U.S.C. 102(b) as being participated by McEwan ('6,373,428).

Regarding claims 13, 23, and 32, McEwan discloses:

- A transmitter for sending a transmission signal. See FIG.1 (" a transmitter 14"). Column 3, line 39-40.
- A receiver to receive a reflection signal. See FIG.1 (" a receiver 20"). Column 3, line 44-46.
- A receiving oscillator with a transient response influenced by the reflection signal. See FIG.1 (" oscillator 22"). Column 3, line 67 and column 4, line 39-46 (" the detected RX pulses").

Regarding **claim 14**, McEwan discloses at least one of a build-up time of receiving oscillator influenced by the reflection signal. See column 5, line 36-39.

McEwan also inherently teaches an average delivered power of receiving oscillator influenced by the reflection signal. See FIG. 2b. Column 5, line 16-25.

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An average power of the oscillator is well known to one skilled in the art that it is measured by using the formula: $P_{ave} = E_{pulse} / T$ or $E_{pulse} * F$.

Regarding claim 15, McEwan inherently teaches that a power of receiving oscillator can be measured as previously discussed.

Regarding claim 16, McEwan discloses means for switching the receiving oscillator on and off. See FIG. 2a ("switch 44"). See column 4, line 49-51.

Regarding claim 17, McEwan discloses the switching means configured to switch receiving oscillator periodically following a clock rate. See column 5, line 8-14.

Regarding **claim 18**, McEwan disclose that the receiving oscillator is also a transmitting oscillator for generating the transmission signal. See column 3, line 66-67 and column 4, line 1-8.

Regarding **claim 19**, McEwan discloses a transmitting oscillator for generating the transmission signal. See FIG. 1 (" TX clock oscillator 12"). Column 3, line 66-67.

Regarding **claim 33**, McEwan inherently teaches the measurement method to measure a distance of the target. Column 1, line 55-60.

Regarding claims **24-25**, **29-31**, McEwan discloses a pulsed transmitter radar, in combination with a motor vehicle, a building, and an industrial plant. See FIG.1 ("drawing description"). Column 2, line 63-67 and column 3, line 1-5.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 20-22 and 26-28 are rejected under 35 U.S.C. 103(a) as being obvious

over McEwan as applied to claim 13 above, and further in view of McCorkle

('2002/0064245).

Regarding claims 20 and 26, McEwan fails to disclose a mixer configured to add

together first and second measurement sub-signals.

However, McCorkle successfully discloses a mixer configured to add together

first and second measurement sub-signals. See FIG. 5 ("a main mixer 555 and an error

mixer 560"). Page 3, paragraph 0027 and page 7, paragraph 0097.

Regarding claims 21-22 and 27-28, McEwan fails to disclose a mixer having a

mixer with two diodes connected with same polarities to sum two measure sub-signals

and a mixer with two diodes connected with opposite polarities to subtract two measure

sub-signals.

However, McCorkle successfully discloses a mixer having a mixer with two

diodes connected with same polarities to sum two measure sub-signals and a mixer

with two diodes connected with opposite polarities to subtract two measure sub-signals.

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See FIG. 5 ("a main mixer 555 and an error mixer 560"). Page 3, paragraph 0027 and page 7, paragraph 0097.

It would have been obvious to modify McEwan to include a mixer to combine two measurement sub-signals in teaching of McCorkle in order to efficiently reduce performance degradation as a result of self generated noise.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hien Ly whose telephone number is 571-270-1326. The examiner can normally be reached on M-F: 7:00am - 4:00pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, THOMAS H. TARCZA can be reached on 571-272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Patent Examiner

Hien Ly

June 29, 2007

THOMAS H. TARCZA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600